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Hardening-delaying agent for cement deep mixing process - comprises oxy-carboxylic acid, sugar and phosphonic acid deriv.

Patent Assignee: FUJISAWA PHARM CO LTD (FUJI)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP61040854	A	19860227			198615	B

Priority Applications (No Type Date): 84JP-0162009 A 19840731

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP61040854	A	4		

Abstract (Basic): JP 61040854 A

The cement hardening-delaying agent comprises oxycarboxylic acid, salt thereof, sugar, sugar alc., phosphonic acid deriv., salt thereof, or mixts. thereof. The oxycarboxylic acid is e.g. gluconic acid, glucoheptonic acid, arabonic acid, malic acid and citric acid etc. The sugar is e.g. monosaccharide, disaccharide, trisaccharide or oligosaccharide etc.. The phosphonic acid deriv. is e.g. aminomethane phosphonic acid, aminotrimethyl phosphonic acid, phosphonocarboxylic acid and derivs. thereof etc..

In the cement deep mixing process, amt. of cement added is 5-50 wt.% against solids content of viscous soil in case of mixing the cement with the soil, and amt. of delaying agent to be added is 0.01-3.0 wt.% based on mixt. of the cement and the soil.

ADVANTAGE - Development in strength of the ground is suppressed over a few days, and joining with the adjacent ground to be placed in later gives composite reinforced ground having desired strength. (4pp Dwg.No.0/0)